

SPECTRAL EXTRA 895 SPRAY FADE OUT THINNER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1. Product identifier

SPECTRAL EXTRA 895 SPRAY FADE OUT THINNER

1.2. Relevant identified uses of the substance or mixture and uses advised against

Fade out thinner, aerosol product, for professional use in car refinishing.

1.3. Details of the supplier of the Safety Data Sheet

NOVOL Sp. z o.o.
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Person responsible for the Safety Data Sheet dokumentacja@novol.pl

1.4. Emergency telephone number +48 61 810-99-09 (from 7 a.m. to 3 p.m.)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The mixture was classified as dangerous pursuant to current regulations - see Section 15.

Classification 1272/2008/EC:

Aerosols, hazard category 1. Extremely flammable aerosol.
Aerosols, hazard categories 1. Pressurised container: May burst if heated.
Hazardous to the aquatic environment – chronic hazard, Category 3, Aquatic Chronic 3.
Repeated exposure may cause skin dryness or cracking.

2.2. Label elements:

Contains:

Dimethyl ether

Pictograms:



Signal word:

Danger

H222
H229
EUH066

Extremely flammable aerosol.
Pressurised container: May burst if heated.
Repeated exposure may cause skin dryness or cracking.

P102
P210

P211
P251
P260
P280
P410+P412

Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Do not breathe vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

2.3. Other hazards

No available data.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Product identifier		SPECTRAL EXTRA 895 SPRAY FADE OUT THINNER	
Substance name	Identification numbers	Classification and marking	Concentration [wt%]
Dimethyl ether	EC: 204-065-8 CAS: 115-10-6 Index no.: 603-019-00-8 Registration no.: 01-2119472128-37-XXXX	Flam. Gas. 1; H220; Press. Gas. H280	50-75
Butyl acetate	EC: 204-658-1 CAS: 123-86-4 Index no.: 607-025-00-1 Registration no.: 01-2119485493-29-XXXX	Flam. Liq. 3; H226; STOT SE 3; H336 EUH066	<12,5
1-methoxy-2-propanol acetate	EC: 203-603-9 CAS: 108-65-6 Index no.: 607-195-00-7 Registration no.: 01-2119475791-29-XXXX	Flam. Liq. 3; H226;	<12,5
Cyclohexanone	EC: 203-631-1 CAS: 108-94-1 Index no.: 606-010-00-7 Registration no.: 01-2119453616-35-XXXX	Flam. Liq. 3; H226; Acute Tox. 4; H332	<10
Isobutyl methyl ketone	WE: 203-550-1 CAS: 108-10-1 Index no.: 606-004-00-4 Registration no.: 01-2119473980-30-XXXX	Flam. Liq. 2; H225 Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335 EUH066	<10

The full text of the hazard statements (H) is provided in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General notes:

See Section 11 of the Safety Data Sheet.

Inhalation:

Take the victim outside into fresh air, ensure calm surroundings; in the case of respiratory arrest, administer artificial ventilation. **Call a doctor.**

Skin:

Take off contaminated clothing. Rinse contaminated skin with plenty of lukewarm water for about 15 minutes. If irritation persists, consult a doctor.

Eyes:

Rinse immediately with plenty of lukewarm water for about 15 minutes, avoid strong water jet - risk of cornea damage, consult a doctor.

Ingestion:

Do not induce vomiting (aspiration risk). Rinse mouth with water. If conscious, give 1-2 glasses of warm water to drink. Call a doctor.

The first aiders should wear medical gloves.

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SECTION 4: FIRST AID MEASURES

4.2. Most important symptoms and effects, both acute and delayed

Vapours may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking.

4.3. Indications of any immediate medical attention and special treatment needed

Special measures allowing for specialist and immediate aid should be available at the work place.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Powder, alcohol-resistant foam, carbon dioxide, water mist.

5.2. Special hazards arising from the substance or mixture

Fire may cause generation of carbon dioxide and other toxic gases.

5.3. Advice for firefighters

Fire-fighting teams should wear self-contained breathing apparatus and light protective clothing. Cool adjacent tanks by spraying water at a safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Eliminate the sources of ignition. Ensure adequate ventilation of the room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Personal protective equipment: see Section 8 of the Safety Data Sheet.

For emergency responders:

The emergency responders shall wear protective clothing made of coated impregnated fabric, protective gloves (Viton), fully sealing safety goggles and breathing apparatus: gas masks with a Type A absorber.

6.2. Environmental precautions

Do not allow entry to sewage systems, surface waters, ground waters and soil.

6.3. Methods and materials for containment and cleaning up

Stop the spill (isolate the liquid inflow and seal), place damaged containers in emergency containers, remove the liquid mechanically and place it in an emergency container. In case of a large spill, embank the area. In case of small spills, collect with a binding agent (e.g. mica, diatomaceous earth or sand).

6.4. Reference to other sections

Personal protective equipment: see Section 8 of the Safety Data Sheet. Disposal considerations: see Section 13 of the Safety Data Sheet.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Pressurized container. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – do not smoke when spraying. Do not allow entry to sewage systems, surface waters, ground waters and soil. Use in well ventilated rooms. Do not smoke. Do not inhale vapours. Avoid contact with skin and eyes. Take precautions against electrostatic discharge. Use personal protective equipment: see Section 8 of the Safety Data Sheet.

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Keep away from sources of ignition – No smoking. Keep out of reach of children. Do not store near large amounts of organic peroxides and other strong oxidants. Take precautions against electrostatic discharge. Store in cool, well ventilated rooms.

7.3. Specific end use(s)

Fade out thinner in spray, for professional use in car refinish, with consideration of the information included in Subsections 7.1 and 7.2.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Dimethyl ether CAS 115-10-6 according to:

- *TRGS 900*: MAK: 1000ppm, MAK: 1900 mg/m³, 8(II),DFG
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 400 ppm: 766 mg/m³, STEL 500ppm, 958 mg/m³

2-methoxy-1-methylethyl acetate CAS 108-65-6 according to:

- *TRGS 900*: MAK: 50ppm, MAK: 270 mg/m³, 1(I),DFG, EU, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 ppm, 274 mg/m³, STEL 100ppm, 548 mg/m³, Sk

Butyl acetate CAS 123-86-4 according to:

- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 150 ppm, 724 mg/m³, STEL 200ppm, 966 mg/m³

Isobutyl methyl ketone CAS 108-10-1 according to:

- *TRGS 900*: MAK: 20 ppm, MAK: 83 mg/m³, 2(I) DFG, H, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 ppm, 208 mg/m³, STEL 100ppm, 416 mg/m³,Sk, Bmgv

8.2. Exposure controls

Respiratory protection:

Gas mask with Type A absorber (EN 141).

Hand protection:

Protective gloves PN-EN 374-3 (Viton, 0.7 mm thick, penetration time > 480 min; butyl rubber, 0.5 mm thick, penetration time >480 min)

Eye protection:

Fully sealing safety goggles.

Skin protection:

Suitable protective clothing (coated impregnated fabrics).

Workplace:

Local exhaust ventilation and general ventilation.

Environmental exposure controls:

Do not allow entry to sewage systems, surface waters, ground waters and soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	pressurized liquid (aerosol)
Colour	colourless
Odour	pungent, powerful
Odour threshold	no data
pH	not applicable
Melting/freezing point	not applicable
Boiling point	not applicable
Flash point	< 0°C
Autoignition point	not applicable
Decomposition temperature	no data
Evaporation rate	not applicable
Flammability (solid, gas)	not applicable
Explosion limits	% lower: 1.2 vol% upper: 26.2 vol%
Vapour pressure	4000 hPa (20°C)
Vapour density (air = 1)	no data
Density	ca. 0.7 g/cm ³ (20°C)
Solubility (in water)	poor
Partition coefficient (n-octanol/water)	no data
Viscosity	no data
Explosive properties	no data
Oxidizing properties	not applicable

9.2. Other information

No available data.

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is not reactive under normal conditions.

10.2. Chemical stability

The product remains stable under normal conditions.

10.3. Possibility of hazardous reactions

Carbon monoxide and other toxic gases are generated as a result of thermal decomposition.

SECTION 10: STABILITY AND REACTIVITY

10.4. Conditions to avoid

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – No smoking. Keep out of reach of children.

10.5. Incompatible materials

Avoid contact with large amounts of organic peroxides, strong acids and bases as well as other strong oxidants.

10.6. Hazardous decomposition products

Carbon monoxide and other toxic gases are generated as a result of thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No experimental data available on the preparation. The evaluation was performed based on the data on dangerous ingredients included in the preparation.

a) Acute toxicity

Dimethyl ether	LC ₅₀ (rat, inhalation)	308 mg/m ³ /4h
Cyclohexanone	LD ₅₀ (rat, oral)	1535 mg/kg
Butyl acetate	LD ₅₀ (rat, ingestion)	10768 mg/kg
	LC ₅₀ (rat, inhalation)	390 ppm/4h
	LD ₅₀ (rabbit, skin)	17600 mg/kg
1-methoxy-2-propanol acetate	LD ₅₀ (rat, ingestion)	8532 mg/kg
	LD ₅₀ (rabbit, skin)	5000 mg/kg
Isobutyl methyl ketone	LD ₅₀ (rat, ingestion)	2080mg/kg
	LC ₅₀ (rat, inhalation)	100gm/m ³

b) Skin corrosion/irritation

No available data confirming the hazard class.

c) serious eye damage/irritation

No available data confirming the hazard class.

d) respiratory or skin sensitisation

The mixture has not been classified as allergenic. No available data confirming the hazard class.

e) germ cell mutagenicity

The mixture has not been classified as mutagenic. No available data confirming the hazard class.

f) carcinogenicity

The mixture has not been classified as cancerogenic. No available data confirming the hazard class.

g) reproductive toxicity

The mixture has not been classified as having any harmful effect on reproduction. No available data confirming the hazard class.

h) STOT-single exposure

No available data confirming the hazard class.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

i) STOT- repeated exposure

No available data confirming the hazard class.

j) aspiration hazard

No available data confirming the hazard class.

Exposure routes:

Inhalation: Potential irritation.

Skin: Repeated exposure may cause skin dryness or cracking.

Eyes: Potential irritation.

If swallowed, the substance may cause irritation of the digestive tract, nausea, vomiting and diarrhoea.

Poisoning symptoms: Headache and vertigo, fatigue, decreased muscle power, drowsiness and, in extreme cases, loss of consciousness. Vapours may cause drowsiness and dizziness.

SECTION 12: ECOLOGICAL INFORMATION

No experimental data available on the preparation. The evaluation was performed based on the data on hazardous ingredients included in the preparation.

12.1. Toxicity

Dimethyl ether

Daphnia magna EC50 (48h) >4000 mg/l

Cyclohexanone

Daphnia magna EC50 (48h)

820 mg/l

Fish LC50 (96h)

536 mg/l

Butyl acetate

Number in the catalogue of water hazardous substances: 42

Water hazard class:

1

1-methoxy-2-propanol acetate

Daphnia magna EC50 (48hours.) > 500 mg/l

Oncorhynchus mykiss (rainbow trout)/LC50 (96 hours) 100-180 mg/l

Number in the catalogue of water hazardous substances: 5033

Water hazard class:

1

Isobutyl methyl ketone

Acute toxicity for fish 100 mg/l <EC50 =< 1000 mg/l

12.2. Persistence and degradability

No available data.

12.3. Bioaccumulative potential

No available data.

12.4. Mobility in soil

The product is poorly soluble in water.

12.5. Results of PBT and vPvB assessment

No available data.

12.6. Other adverse effects

No available data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

The product must be disposed of in compliance with suitable local and statutory regulations with regard to waste - see Section 15.

Dispose of at a facility authorised by a relevant authority to collect, reclaim or neutralise waste.

Product residues:

Waste Code: 08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances. Do not dispose the product into sewage systems. Do not collect with communal waste. Empty the container of the product remains until completely depressurized and leave the product to dry freely (in well ventilated rooms only). The dry product is not hazardous waste.

CAUTION: Dry the residues in small portions, away from flammable products. The chemical reaction generates large amounts of heat!

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SECTION 13: DISPOSAL CONSIDERATIONS

Contaminated containers:

Do not pierce or burn the packaging, even after use. A packaging containing unhardened product residues is hazardous waste. Waste Code: 15 01 11* Metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers. Do not collect with communal waste. Dispose of the packaging at a facility authorised by a relevant authority to collect, reclaim or neutralise waste.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMO/IMGD	IATA-DGR
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name		AEROSOLS, flammable	
14.3. Transport hazard class(es)	2	2	2
14.4. Packing group	---	---	---
14.5. Environmental hazards	no	no	no
14.6. Special precautions for user			
Do not use open flames and do not smoke. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not transport together with materials of class 1 (excluding materials of class 1.4S) and some materials of classes 4.1 and 5.2. During transport, avoid direct contact with materials of classes 5.1 and 5.2. Do not use open flames and do not smoke.			
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code			
Not applicable.			

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Regulation 2006/1907/WE
CLP - Regulation 1272/2008/WE

15.2. Chemical safety assessment

Not performed.

SECTION 16: OTHER INFORMATION

Relevant hazard statements listed in Sections 2 to 15:

Flam.Liq.2 Liquid, flammable substances, category 2
H225 Highly flammable liquid and vapour.
Flam. Liq.3 Flammable liquid. Category 3
H226 Flammable liquid and vapour
Flam. Gas. 1 Flammable gas. Category 1
H220 Extremely flammable gas
Press. Gas Pressurized gas
H280 Contains gas under pressure; may explode if heated
Eye Irrit. 2 Eye irritation, category 2.
H319 Causes serious eye irritation.
Acute Tox. 4; Acute toxicity. Category 4
H332 Harmful if inhaled
STOT SE 3 Specific target organ toxicity – single exposure, Category 3
H336 May cause drowsiness or dizziness
H335 May cause respiratory irritation

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SECTION 16: OTHER INFORMATION

Explanation of the abbreviations and acronyms used in the Safety Data Sheet

CAS no – numerical symbol ascribed to a chemical substance by the American organization, Chemical Abstracts Service (CAS).

EC no. – a number ascribed to a chemical substance in the European List of Notified Chemical Substances (ELINCS) or a number in the European Inventory of Existing Chemical Substances mention in "No-longer polymers" publication (EINECS)

MPC – maximum permissible concentration of health hazardous substances in the work place

MPIC – maximum permissible instantaneous concentration

MPCC - maximum permissible ceiling concentration

PCB - permissible concentration in biological material

UN number - four-digit identification number of a substance, preparation or product pursuant to UN model regulations

ADR – European agreement on international road transport of hazardous materials

IMO – International Marine Organization

RID – Regulations for international rail transport of hazardous materials

IMDG-Code – International marine code for hazardous materials

ICAO /IATA – Technical Instructions for Safe Air Transport of Hazardous Materials

The information is based on our current knowledge. This document shall not constitute warranty for product characteristics. Classification was made by calculation method according to the classification rules contained in Regulation 1272/2008/WE.

Other sources of information

ECHA European Chemicals Agency

TOXNET Toxicology Data Network

IUCLID International Uniform Chemical Information Database

Changes: General update

Trainings:

With regard to handling, health and safety while working with hazardous substances and mixtures.

With regard to transport of hazardous goods pursuant to the requirements of ADR regulations.

Issued by: NOVOL Sp. z o.o.

Information available from: Research and Development Laboratory, tel. +48 61 810 99 09.